

WHAT IS CLAIMED IS:

1. An electro-optical device, comprising:
  - a plurality of scanning lines;
  - a plurality of data lines;
  - a plurality of electro-optical elements provided to correspond to intersections of the plurality of scanning lines and the plurality of data lines;
  - first switches to control the supply of a precharge signal from a precharge signal supply line connected to at least one data line of the plurality of data lines to the at least one data line;
  - second switches connected to the at least one data line of the plurality of data lines to control the output of a detection signal from the at least one data line to test lines; and
  - a data line selection circuit to set the on or off state of the second switches.
2. An electro-optical device, comprising:
  - a plurality of scanning lines;
  - a plurality of data lines;
  - a plurality of electro-optical elements provided to correspond to intersections of the plurality of scanning lines and the plurality of data lines;
  - third switches to control the supply of precharge signals from input and output signal lines connected to at least one data line of the plurality of data lines to the at least one data line and to control the output of a test signal from the at least one data line to the input and output signal lines; and
  - a data line selection circuit to set the on or off state of the third switches.
3. An electro-optical device, comprising:
  - a plurality of scanning lines;
  - a plurality of data lines;
  - a plurality of electro-optical elements provided to correspond to intersections of the plurality of scanning lines and the plurality of data lines;
  - at least two precharge lines to supply precharge signals to at least two data lines of the plurality of data lines;
  - first switches to control the output of the precharge signals from the at least two precharge lines to the at least two data lines; and
  - second switches to control the output of detection signals from the at least two data lines of the plurality of data lines to test lines.
4. An electro-optical device according to Claim 3, further comprising:

a data line selection circuit to control precharge signals output from the at least two data lines to the test lines by sequentially operating the second switches.

5. A method of driving an electro-optical device, including:

a plurality of scanning lines;

a plurality of data lines wired to intersect the scanning lines;

electronic circuits provided to correspond to intersections of the scanning lines and the data lines; first switches to control the supply of a precharge signal from a precharge signal supply line connected to at least one data line of the plurality of data lines to the at least one data line; and

second switches connected to the at least one data line of the plurality of data lines to control the output of a detection signal from the at least one data line to test lines, the method comprising:

supplying a precharge signal from a precharge signal supply line to the data lines through the first switches when one of the plurality of scanning lines is selected;

supplying data signals to electronic circuits connected to the selected scanning line through the data lines; and

outputting data signals supplied to the data lines as detection signals to test lines through the second switches.

6. A method of driving an electro-optical device, including:

a plurality of scanning lines;

a plurality of data lines wired to intersect the scanning lines;

electronic circuits provided to correspond to intersections of the scanning lines and the data lines;

at least two precharge lines to supply precharge signals to at least two data lines of the plurality of data lines;

first switches to control the output of the precharge signals from the at least two precharge lines to the at least two data lines; and

second switches to control the output of detection signals from the at least two data lines of the plurality of data lines to test lines,

the method comprising:

supplying a precharge signal from a precharge signal supply line to the data lines through the first switches when one of the plurality of scanning lines is selected;

supplying data signals to electronic circuits connected to the selected scanning line through the data lines; and

outputting data signals supplied to the data lines as detection signals to the test lines through the second switches.

7. An electronic apparatus equipped with the electro-optical device according to Claim 1.